Application No. 10/784,046 Amendment filed May 7, 2007

Response to Office Action dated February 8, 2007

## REMARKS

After entry of this Amendment, the pending claims are: claims 33-80. The Office Action dated February 8, 2007 has been carefully considered. Claims 81-91 were previously canceled as being directed to a non-elected invention. The Applicants explicitly reserved the right to file continuation and/or divisional applications directed towards the embodiments of claims 81-91. Claims 37-42, 54-59, and 62-68 were previously withdrawn as being directed to non-elected species based on the understanding that the claims would only be restricted to the elected species if no generic claim is held allowable. Claims 33, 51, and 60 have been amended. No new matter has been added. Reconsideration and allowance of the pending claims in view of the above Amendments and the following Remarks is respectfully requested.

In the Office Action dated February 8, 2007, the Examiner:

- objected to the drawings as failing to comply with 37 CFR 1.84(p)(5)
- rejected claim 51 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention;
- rejected claims 33-36, 48, 49, 60, 61, 64, 74 and 75 under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,496,318 to Howland et al. ("Howland");
- rejected claims 33-36, 48-51, 60, 61, 71, 72, and 74-77 under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6,524,341 to Lang et al. ("Lang");
- rejected claims 44, 70, and 78 under 35 U.S.C. 103(a) as being unpatentable over Lang in view of U.S. Patent No. 6,660,037 to Boyer et al. ("Boyer");

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 rejected claims 43 and 69 under 35 U.S.C. 103(a) as being unpatentable over Lang in view of U.S. Patent No. 4,932,975 to Main et al. ("Main");

( Main )

• rejected claims 47 and 73 under 35 U.S.C. 103(a) as being unpatentable over Lang in

view of PCT Published Application No. WO 95/31158 to Taylor ("Taylor"); and

rejected claims 52, 53, 79 and 80 under 35 U.S.C. 103(a) as being unpatentable over

Lang.

DRAWINGS

Drawings were objected to for failing to comply with 37 CFR 1.84(p)(5). In particular, Fig. 1b

was objected to for incorporating reference character "9" which is not mentioned in the specification.

Reference character "9" has been deleted from Fig. 1b. Withdrawal of this objection is respectfully

requested. Replacement Sheets (sheets 1-5) are attached hereto as Attachment A.

DEPENDENT CLAIM 51

Dependent claim 51 was rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which Applicants regard as the

invention. In particular, dependent claim 51 was rejected for failing to provide sufficient antecedent

basis for "the projection." Dependent claim 51 has been amended to depend from claim 34. It is

respectfully submitted that sufficient antecedent basis now exists for "the projection." Withdrawal of

this rejection is respectfully requested.

INDEPENDENT CLAIM 33

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Independent claim 33 was rejected under 35 U.S.C. 102(b) as being anticipated by Howland. In

addition, independent claim 33 was rejected under 35 U.S.C. 102(b) as being anticipated by Lang.

As an initial matter, independent claim 33 has been amended without prejudice to make explicit

what was already implicit. That is, independent claim 33 has been amended to require, inter alia, a

prosthesis for implantation between a first spinous process and a second spinal process, the prosthesis

comprising first and second halves each comprising a process portion, each process portion being sized

and configured to be placed on either side of the first and second spinous processes and a coupling

portion, each coupling portion having an axis and configured for insertion between the first and second

spinous processes. It is respectfully submitted that Lang is directed to an intervertebral spacer that is

sized and configured to be located in between the endplates of adjacent vertebral. Thus, Lang does not

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disclose, teach or suggest a prosthesis for implantation between a first spinous process and a second

spinal process wherein the prosthesis includes a process portion for placement on either side of the first and second spinous processes and a coupling portion for insertion between the first and second spinous

processes. Thus, it is respectfully submitted that Lang does not disclose, teach or suggest all of the

limitations of independent claim 33. Thus, it is respectfully submitted that independent claim 33 is

allowable over the cited prior art. Withdrawal of this rejection is respectfully requested.

Independent claim 33 was rejected under 35 U.S.C. 102(b) as being anticipated by Howland. As

amended, independent claim 33 requires, inter alia, a prosthesis for implantation between a first spinous

process and a second spinal process, the prosthesis comprising first and second halves each comprising a

process portion, each process portion being sized and configured to be placed on either side of the first

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and second spinous processes and a coupling portion, each coupling portion configured for insertion between the first and second spinous processes, the coupling portions being sized and configured to be elastically deformable. It is respectfully submitted that Howland does not disclose, teach or suggest an elastically deformable coupling portion.

Howland discloses a spinal fixation device 10 for insertion between the spinous processes of adjacent vertebrae wherein the spinal fixation device is sized and configured to be inserted in-between square notches 12 that are formed in the spinous processes of the adjacent vertebra so that when the spinal fixation device 10 is forced into the square notches, the spinous processes are forced apart and thereby apply a force to the anterior side of the vertebra, closing the gap between the adjacent vertebrae and adding to the distraction of the spinal column in this region. In order to accomplish this, the spinal fixation device 10 includes a plate 14 having an narrower end 15 and a rectangular shaped slot 18, a bar 16, a sliding bar 20 which includes a rectangular-shaped hollow section 21 for receiving the plate 14 and a pin 22. In use, the narrower end 15 of the spinal fixation device 10 is inserted into the space between the facing square notches in the adjacent vertebrae until the bar 16 abuts the side of the spinous processes, the gradually increasing width and depth of the plate gently forces the spinous processes apart. Thereafter, the sliding bar 20 is pushed onto the plate 14 and past the rectangular shaped slot 18 so that the slot 18 is exposed. The pin 22 is then inserted into the slot 18, thus holding the sliding bar 20 in place on the plate 14 and the plate 14 in place on the vertebrae. The components of the spinal fixation device are preferably made from ultra high density polyethylene (UHDP).

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It is respectfully submitted that Howland does not disclose, teach or suggest a prosthesis for

implantation between a first spinous process and a second spinal process, the prosthesis comprising first

and second halves each comprising a coupling portion for insertion between the first and second spinous

processes, wherein the coupling portions are sized and configured to be elastically deformable.

Therefore, it is respectfully submitted Howland does not disclose, teach, or suggest all of the

limitations of independent claim 33. Withdrawal of this rejection and allowance of independent claim

33 is respectfully requested.

Furthermore, as claims 34-36 and 43-53 all depend from independent claim 33, it is submitted

that these claims are equally allowable. Withdrawal of these rejections and allowance of claims 34-36

and 43-53 is also respectfully requested.

Moreover, claims 37-42 and 54-59 were withdrawn as being directed to a non-elected species. It

is respectfully submitted that independent claim 33 is generic and, as such, claims 37-42 and 54-59

should be allowed as well.

INDEPENDENT CLAIM 60

Independent claim 60 was rejected under 35 U.S.C. 102(b) as being anticipated by Howland. In

addition, independent claim 60 was rejected under 35 U.S.C. 102(b) as being anticipated by Lang.

As an initial matter, independent claim 60 has been amended without prejudice to make explicit

what was already implicit. That is, independent claim 60 has been amended to require, inter alia, an

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interspinal prosthesis for implantation between a first spinous process and a second spinal process, the prosthesis comprising a first half comprising a coupling portion and a process portion, the coupling portion having a bore and configured for insertion into the interspinal space between the first spinous process and the second spinal process, the process portion being sized and configured to be placed on one side of the first and second spinous processes; a second half comprising a coupling portion and a process portion, the coupling portion configured to be received within the bore of the coupling portion of the first half, the process portion being sized and configured to be placed on the other side of the first and second spinous processes. It is respectfully submitted that Lang is directed to an intervertebral spacer that is sized and configured to be located in between the endplates of adjacent vertebral. Thus, Lang does not disclose, teach or suggest a prosthesis for implantation between a first spinous process and a second spinal process wherein the prosthesis includes a process portion for placement on either side of the first and second spinous processes and a coupling portion for insertion between the first and second spinous processes. Thus, it is respectfully submitted that Lang does not disclose, teach or suggest all of the limitations of independent claim 60. Thus, it is respectfully submitted that independent claim 60 is allowable over the cited prior art. Withdrawal of this rejection is respectfully

Independent claim 60 was rejected under 35 U.S.C. 102(b) as being anticipated by Howland. As amended, independent claim 60 requires, *inter alia*, an interspinal prosthesis for implantation between a first spinous process and a second spinal process, the prosthesis comprising a first half comprising a coupling portion and a process portion, the coupling portion having a bore and configured for insertion

requested.

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into the interspinal space between the first spinous process and the second spinal process, the process

portion being sized and configured to be placed on one side of the first and second spinous processes; a

second half comprising a coupling portion and a process portion, the coupling portion configured to be

received within the bore of the coupling portion of the first half, the process portion being sized and

configured to be placed on the other side of the first and second spinous processes; wherein the coupling

portion of the first and second halves are sized and configured to be elastically deformable such that the

coupling portion in the area between the first and second spinous processes has an unstressed diameter

and a deformed diameter, said deformed diameter being between about 10% to about 50% of the

unstressed diameter.

It is respectfully submitted that support for such claim amendment is found in originally filed

dependent claim 5 which read "[t]he prosthesis (1) of claims 1 to 3, characterized in that it is produced from an elastic material, which permits an elastic deformation of the diameter of the central part (2) at

its narrowest place (10) of 10 to 50% ..."

As previously described in connection with independent claim 33 above, it is respectfully

submitted that Howland does not disclose, teach or suggest an elastically deformable coupling portion

and certainly does not disclose, teach or suggest an elastically deformable coupling portion such that the

coupling portion in the area between the first and second spinous processes has an unstressed diameter

and a deformed diameter, said deformed diameter being between about 10% to about 50% of the

unstressed diameter. Thus, it is respectfully submitted that Howland does not disclose, teach, or suggest

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all of the limitations of independent claim 60. Withdrawal of this rejection and allowance of

independent claim 60 is respectfully requested.

Furthermore, as claims 61, 64, and 69-80 all depend from independent claim 60, it is submitted

that these claims are equally allowable. Withdrawal of these rejections and allowance of claims 61, 64,

and 69-80 is also respectfully requested.

Moreover, claims 62, 63, and 65-68, were withdrawn as being directed to a non-elected species.

It is respectfully submitted that independent claim 60 is generic and, as such, claims 62, 63, and 65-68

should be allowed as well.

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## CONCLUSION

No fee is believed due for this submission. If, however, the Commissioner determines otherwise, the Commissioner is authorized to charge any fees which may now or hereafter be due in this application to Deposit Account No. 19-4709.

In the event that there are any questions, or should additional information be required, please contact Applicants' attorney at the number listed below.

Respectfully submitted,

Date: May 7, 2007

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## Attachment A

(Drawings: Replacement Sheets)